

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
13	Algebraic methods. Functions and Graphs Sequences and Series Regression, Correlation & Hypothesis testing Conditional probability Normal Distribution	Binomial Expansion Radians Trigonometric Functions Moments Forces and friction	Trigonometric Functions Parametric Equations Projectiles Application of forces Further Kinematics	Differentiation Numerical Methods Vectors	Integration Exam Style practice	
12	Algebra & Functions Quantities in Mechanics Kinematics Forces & Newtons laws	Coordinate Geometry Trigonometry Vectors 2D Kinematics 2 Sampling	Trigonometry Further Algebra Differentiation Data presentation Probability Stats distribution	Integration Stats distribution Hypothesis testing	Exponentials & Logarithms Hypothesis testing	Exam practice. Begin Y13 syllabus.



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
11	<p>Exam Prep 1</p> <p>Exam 1</p> <p>Work on areas that need developing, as diagnosed from Exam 1.</p>	<p>Exam Prep 2 & 3 (Winter Mocks)</p> <p>Exam 2 & 3</p> <p>Work on areas that need developing, as diagnosed from Exam 2 & 3</p>	<p>Work on areas that need developing, as diagnosed from Exam 2 & 3</p> <p>Exam Prep 4</p> <p>Exam 4</p> <p>Work on areas that need developing, as diagnosed from Exam 4.</p>	<p>Exam Prep 5 & 6 (Spring Mocks)</p> <p>Exam 5 & 6</p> <p>Work on areas that need developing, as diagnosed from Exam 5 & 6.</p>	<p>Final summer preparation</p>	
10 Higher Tier	<p>Fractions</p> <p>Algebraic fractions</p> <p>Product of Primes</p> <p>Indices</p> <p>Standard Form</p> <p>Surds</p> <p>Expanding brackets</p>	<p>Exam Prep 1</p> <p>Exam 1</p> <p>Work on areas that need developing, as diagnosed from Exam 1.</p> <p>Linear Equations</p> <p>Factorising and Expanding</p> <p>Quadratics</p> <p>Simultaneous Equations</p>	<p>Cumulative Frequency</p> <p>Pie Charts</p> <p>Frequency Polygons</p> <p>Comparing Data</p> <p>Averages</p> <p>Compound interest</p> <p>Reverse Percentages</p> <p>Percentage Change</p> <p>Ratio</p> <p>Proportion</p>	<p>Functions</p> <p>Pythagoras</p> <p>Trigonometry</p> <p>Sine rule</p> <p>Cosine rule</p> <p>Area of triangle</p> <p>Parallel Lines</p> <p>Polygons</p> <p>Types of curve</p> <p>Rates of change</p> <p>Area under curves</p>	<p>Exam Prep 2</p> <p>Exam 2</p> <p>Work on areas that need developing, as diagnosed from Exam 2.</p> <p>Volume</p> <p>Surface Area</p> <p>Accuracy and Bounds</p> <p>Transformations</p> <p>Scale Drawings</p> <p>Inequalities</p>	<p>Similarity and Congruence</p> <p>Pythagoras and Trig in 3D</p> <p>Trig Graphs</p> <p>Circle Theorems</p> <p>Parallel and perpendicular lines</p> <p>Graphs of circles</p> <p>Proof</p> <p>Transforming Graphs</p> <p>Vectors</p> <p>Loci</p> <p>Bearings</p> <p>Simultaneous Equations</p> <p>Tree Diagrams</p> <p>Exact Values</p>



10 Crossover	Two Way Tables Frequency Trees Venn Diagrams Product of Primes/HCF/LCM Real-life Multiples Rounding and Error Intervals Estimation Use of Calculator Fractions Percentages Ratio Direct Proportion	Exam Prep 1 Exam 1 Work on areas that need developing, as diagnosed from Exam 1. Proportion - Best Value Proportion - Recipes Proportion - Exchange Rates Percentages: Interest and Growth Reverse Percentages Depreciation and Decay Index Laws	Expand and Simplify Factorising Sequences Solving Equations Forming and Solving Equations Inequalities Changing the Subject Standard Index Form Angle Rules Angles in parallel lines Interior and exterior angles Bearings	Volume Surface Area Pythagoras Trigonometry Circles Construction Sampling Averages Averages from tables	Exam Prep 2 Exam 2 Work on areas that need developing, as diagnosed from Exam 2. Frequency Diagrams Scatter Graphs Pie Charts Straight line graphs $y = mx + c$	Parallel graphs Non-linear graphs Speed Compound measures Real-life graphs Congruence Similarity Transformations
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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
9	<ul style="list-style-type: none"> - Use the four operations, including formal written methods applied to integers, decimals, fractions (including percentages) and measures. - Simplify and manipulate algebraic expressions to maintain equivalence and begin to describe and use sequences and formulae - describe, sketch and draw polygons using conventional terms and notations. - Record, describe and analyse the frequency of outcomes of simple probability experiments 		<ul style="list-style-type: none"> - Continue to use the four operations and place value for fractions, decimals, measures and integers. - Describe, interpret and compare data using appropriate graphical representations including measures of central tendency. - Simplify and manipulate algebraic expressions to maintain equivalence and work with and describe sequences and formulae - describe, sketch and draw polygons using conventional terms and notations. 		<ul style="list-style-type: none"> - Continue to use the four operations and place value for fractions, decimals, measures and integers. - describe, sketch and draw polygons using conventional terms and notations. - Working with coordinates including identifying the properties of, and describe the results of transformations and graphs - Simplify and manipulate algebraic expressions to maintain equivalence and describe and use sequences and formulae 	

8	<ul style="list-style-type: none"> - Continue to use place value for decimals, measures and integers. - Use the four operations, including formal written methods applied to integers, decimals, fractions and measures. - Simplify and manipulate algebraic expressions to maintain equivalence and begin to describe and use sequences and formulae - Describe, interpret and compare data using appropriate graphical representations 	<ul style="list-style-type: none"> - Continue to use the four operations and place value for fractions, decimals, measures and integers. - Describe, interpret and compare data using appropriate graphical representations including measures of central tendency. - Use the concepts and vocabulary of prime numbers, factors (or divisors), and multiples - identify properties of, and describe the results of transformations applied to given figures - Simplify and manipulate algebraic expressions to maintain equivalence and begin to describe and use sequences and formulae 	<ul style="list-style-type: none"> - Continue to use the four operations and place value for fractions, decimals, measures and integers. - Describe, interpret and compare data using appropriate graphical representations and measures of central tendency. - Use and understand ratio notation including sharing a quantity unequally - Understand, apply formulae to calculate and solve problems involving angles, perimeter, area and volume - Simplify and manipulate algebraic expressions to maintain equivalence and begin to describe and use sequences and formulae - Working with coordinates including identifying the properties of, and describe the results of transformations and graphs
7	<ul style="list-style-type: none"> - Understanding and use place value for decimals, measures and integers, including ordering and comparing positive and negative numbers. - Use the four operations, including formal written methods applied to integers, decimals, fractions and measures. - Understand, apply formulae to calculate and solve problems involving perimeter, area and volume - Use and interpret algebraic notation - Record, describe and analyse the frequency of outcomes of simple probability experiments 	<ul style="list-style-type: none"> - Continue to use place value for decimals, measures and integers. - Continue to use the four operations, including formal written methods applied to integers, decimals, fractions and measures. - Describe, interpret and compare data using appropriate graphical representations - Use the concepts and vocabulary of prime numbers, factors (or divisors), and multiples - identify properties of, and describe the results of transformations applied to given figures - Simplify and manipulate algebraic expressions to maintain equivalence and begin to describe and use sequences and formulae 	<ul style="list-style-type: none"> - Continue to use place value for decimals, measures and integers. - Continue to use the four operations, including formal written methods applied to integers, decimals, fractions and measures. - Describe, interpret and compare data using appropriate graphical representations and measures of central tendency. - work with coordinates in all four quadrants to recognise, sketch and produce a range of graphs - Understand, apply formulae to calculate and solve problems involving angles, perimeter, area and volume